### DECEMBER 18, 1990, VOL. 66, NO. 21

## A SYMPOSIUM:

ATHEROSCLEROSIS AND VASCULAR PROTECTION

## JANUARY 1, 1991, VOL. 67, NO. 1

## CORONARY ARTERY DISEASE

1

Predictors of Long-Term Cardiac Survival in Patients with Multivessel Coronary Artery Disease Undergoing Percutaneous Transhuminal Coronary Angioplasty Michel Vandormael, Ubeydullah Deligonul, Sue Taussig, and Morton J. Kern

7

Outcomes of Direct Coronary Angioplasty for Acute Myocardial Infarction in Candidates and Non-Candidates for Thrombolytic Therapy

Bruce R. Brodie, Richard A. Weintraub, Thomas D. Stuckey, E. Joseph LeBauer, Jeffrey D. Katz, Thomas A. Kelly, and Charles J. Hansen

4.5

Severity of Single-Vessel Coronary Arterial Stenosis and Duration of Angina as Determinants of Recruitable Collateral Vessels During Balloon Angioplasty Occlusion

Jan J. Piek, Jacques J. Koolen, Gerard Hoedemaker, George K. David, Cees A. Visser, and Arend J. Dunning

18

Characteristics of Black Patients Admitted to Coronary Care Units in Metropolitan Seattle: Results from the Myocardial Infarction Triage and Intervention Registry (MITI)

Charles Maynard, Paul E. Litwin, Jenny S. Martin, Manuel Cerqueira, Peter J. Kudenchuk, Mary T. Ho, J. Ward Kennedy, Leonard A. Cobb, Sharon M. Schaeffer, Alfred P. Hallstrom, and W. Douglas Weaver

24

Late Results of 200 Repeat Coronary Artery Bypass Operations

Hans A. Verheul, Adrian C. Moulijn, Sjoerd Hondema, Michiel Schouwink, and Arend J. Dunning

31

Cardiovascular Risk Factor Clustering and Ratio of Total Cholesterol to High-Density Lipoprotein Cholesterol in Angiographically Documented Coronary Artery Disease

Myron H. Luria, Jacob Erel, Dan Sapoznikov, and Mervyn S. Gotsman

37

Prevalence of Unsuspected Mitral Regurgitation and Left Ventricular Diastolic Dysfunction in Patients with Coronary Artery Disease and Acute Pulmonary Edema Associated with Normal or Depressed Left Ventricular Systolic Function

Gregg W. Stone, Brian Griffin, Prediman K. Shah, Daniel S. Berman, Robert J. Siegel, Stephen L. Cook, and Gerald Maurer, with the technical assistance of David E. Brown and Kenneth J. Resser

### ARRHYTHMIAS AND CONDUCTION DISTURBANCES

42

Ventricular Tachycardia and Accelerated Ventricular Rhythm Presenting in the First Month of Life George F. Van Hare and Paul Stanger

AR

Exercise Thallium-201 Imaging in Complete Left Bundle Branch Block and the Prevalence of Septal Perfusion Defects

Besher Jazmati, Ara Sadaniantz, Susan P. Emaus, and Gary V. Heller

50

Characterization of Spontaneous Termination of Sustained Ventricular Tachycardia Associated with Coronary Artery Disease

David J. Callans and Francis E. Marchlinski

55

Duration of the QT Interval and Total and Cardiovascular Mortality in Healthy Persons (The Framingham Heart Study Experience) Robert J. Goldberg, James Bengtson, Zuovao Chen, Keaven

M. Anderson, Emanuela Locati, and Daniel Levy

## SYSTEMIC HYPERTENSION

59

Comparison of Lisinopril Versus Atenolol for Mild to Moderate Essential Hypertension

D. Gareth Beevers, Roger A. Blackwood, Simon Garnham, Michael Watson, Abdul A. Mehrzad, Karim Admani, Jennifer E. Angell-James, Morgan Feely, Shubha Kumar, Murtaza H. Husaini, David Mannering, Carol Connett, and Christine Long

## CONGESTIVE HEART FAILURE

63

Hemodynamic Effects of Renin Inhibition by Enalkiren in Chronic Congestive Heart Failure

Gerald W. Neuberg, Marrick L. Kukin, Joshua Penn, Norma Medina, Madeline Yushak, and Milton Packer

67

Effects of Bucindolol on Neurohormonal Activation in Congestive Heart Failure

Eric J. Eichhorn, A. Iain McGhie, John B. Bedotto, James R. Corbett, Craig R. Malloy, Barbara A. Hatfield, David Deitchman, John E. Willard, and Paul A. Grayburn

## VALVULAR HEART DISEASE

74

Effects of Percutaneous Transvenous Mitral Commissurotomy on Levels of Plasma Atrial Natriuretic Peptide During Exercise

Fuminobu Ishikura, Seiki Nagata, Masashi Akaike, Jun Tamai, and Kunio Miyatake

79

Blood Rheology After Cardiac Valve Replacement with Mechanical Prostheses or Bioprostheses

Renate Koppensteiner, Anton Moritz, Werner Schlick, Gabriele Fenzl, Susanne Roedler, and Herbert Ehringer

### DECEMBER 18, 1990, VOL. 66, NO. 21

## A SYMPOSIUM:

ATHEROSCLEROSIS AND VASCULAR PROTECTION

## JANUARY 1, 1991, VOL. 67, NO. 1

## CORONARY ARTERY DISEASE

1

Predictors of Long-Term Cardiac Survival in Patients with Multivessel Coronary Artery Disease Undergoing Percutaneous Transhuminal Coronary Angioplasty Michel Vandormael, Ubeydullah Deligonul, Sue Taussig, and Morton J. Kern

7

Outcomes of Direct Coronary Angioplasty for Acute Myocardial Infarction in Candidates and Non-Candidates for Thrombolytic Therapy

Bruce R. Brodie, Richard A. Weintraub, Thomas D. Stuckey, E. Joseph LeBauer, Jeffrey D. Katz, Thomas A. Kelly, and Charles J. Hansen

4.5

Severity of Single-Vessel Coronary Arterial Stenosis and Duration of Angina as Determinants of Recruitable Collateral Vessels During Balloon Angioplasty Occlusion

Jan J. Piek, Jacques J. Koolen, Gerard Hoedemaker, George K. David, Cees A. Visser, and Arend J. Dunning

18

Characteristics of Black Patients Admitted to Coronary Care Units in Metropolitan Seattle: Results from the Myocardial Infarction Triage and Intervention Registry (MITI)

Charles Maynard, Paul E. Litwin, Jenny S. Martin, Manuel Cerqueira, Peter J. Kudenchuk, Mary T. Ho, J. Ward Kennedy, Leonard A. Cobb, Sharon M. Schaeffer, Alfred P. Hallstrom, and W. Douglas Weaver

24

Late Results of 200 Repeat Coronary Artery Bypass Operations

Hans A. Verheul, Adrian C. Moulijn, Sjoerd Hondema, Michiel Schouwink, and Arend J. Dunning

31

Cardiovascular Risk Factor Clustering and Ratio of Total Cholesterol to High-Density Lipoprotein Cholesterol in Angiographically Documented Coronary Artery Disease

Myron H. Luria, Jacob Erel, Dan Sapoznikov, and Mervyn S. Gotsman

37

Prevalence of Unsuspected Mitral Regurgitation and Left Ventricular Diastolic Dysfunction in Patients with Coronary Artery Disease and Acute Pulmonary Edema Associated with Normal or Depressed Left Ventricular Systolic Function

Gregg W. Stone, Brian Griffin, Prediman K. Shah, Daniel S. Berman, Robert J. Siegel, Stephen L. Cook, and Gerald Maurer, with the technical assistance of David E. Brown and Kenneth J. Resser

### ARRHYTHMIAS AND CONDUCTION DISTURBANCES

42

Ventricular Tachycardia and Accelerated Ventricular Rhythm Presenting in the First Month of Life George F. Van Hare and Paul Stanger

AR

Exercise Thallium-201 Imaging in Complete Left Bundle Branch Block and the Prevalence of Septal Perfusion Defects

Besher Jazmati, Ara Sadaniantz, Susan P. Emaus, and Gary V. Heller

50

Characterization of Spontaneous Termination of Sustained Ventricular Tachycardia Associated with Coronary Artery Disease

David J. Callans and Francis E. Marchlinski

55

Duration of the QT Interval and Total and Cardiovascular Mortality in Healthy Persons (The Framingham Heart Study Experience) Robert J. Goldberg, James Bengtson, Zuovao Chen, Keaven

M. Anderson, Emanuela Locati, and Daniel Levy

## SYSTEMIC HYPERTENSION

59

Comparison of Lisinopril Versus Atenolol for Mild to Moderate Essential Hypertension

D. Gareth Beevers, Roger A. Blackwood, Simon Garnham, Michael Watson, Abdul A. Mehrzad, Karim Admani, Jennifer E. Angell-James, Morgan Feely, Shubha Kumar, Murtaza H. Husaini, David Mannering, Carol Connett, and Christine Long

## CONGESTIVE HEART FAILURE

63

Hemodynamic Effects of Renin Inhibition by Enalkiren in Chronic Congestive Heart Failure

Gerald W. Neuberg, Marrick L. Kukin, Joshua Penn, Norma Medina, Madeline Yushak, and Milton Packer

67

Effects of Bucindolol on Neurohormonal Activation in Congestive Heart Failure

Eric J. Eichhorn, A. Iain McGhie, John B. Bedotto, James R. Corbett, Craig R. Malloy, Barbara A. Hatfield, David Deitchman, John E. Willard, and Paul A. Grayburn

## VALVULAR HEART DISEASE

74

Effects of Percutaneous Transvenous Mitral Commissurotomy on Levels of Plasma Atrial Natriuretic Peptide During Exercise

Fuminobu Ishikura, Seiki Nagata, Masashi Akaike, Jun Tamai, and Kunio Miyatake

79

Blood Rheology After Cardiac Valve Replacement with Mechanical Prostheses or Bioprostheses

Renate Koppensteiner, Anton Moritz, Werner Schlick, Gabriele Fenzl, Susanne Roedler, and Herbert Ehringer

## CONGENITAL HEART DISEASE

84

Hemodynamic Effects of Ketamine, Hypoxia and Hyperoxia in Children with Surgically Treated Congenital Heart Disease Residing ≥1,200 Meters Above Sea Level

Robert R. Wolfe, James P. Loehr, Michael S. Schaffer, and James W. Wiggins, Jr.

## **BRIEF REPORTS**

99

Comparison of Exercise Stress Testing with Ambulatory Electrocardiographic Monitoring in the Detection of Myocardial Ischemia After Unstable Angina Pectoris

lan Wilcox, S. Ben Freedman, Jianan Li, Phillip J. Harris, and David T. Kelly

91

Circadian Variation in Pain Onset in Unstable Angina Pectoris

Solomon Behar, Henrietta Reicher-Reiss, Uri Goldbourt, Elieser Kaplinsky, and the Principal Investigators of SPRINT, Israel

93

Decrease of Right and Left Atrial Sizes After Direct-Current Electrical Cardioversion in Chronic Atrial Fibrillation

Isabelle C. Van Gelder, Harry J. Crijns, Wiek H. Van Gilst, Hans P. M. Hamer, and Kong I. Lie

05

Cardiac Rhythm Precipitating Automatic Implantable Cardioverter-Defibrillator Discharge in Outpatients as Detected from Transtelephonic Electrocardiographic Recordings

Jonathan S. Steinberg and John S. Sugalski

90

Captopril Versus Captopril Plus Hydrochlorothiazide for Essential Hypertension in Koreans

Daniel W. Jones and Charles D. Sands

99

Velocity Gradients Across Normal Cardiac Valves Kenneth B. Gossler and Stanley J. Goldberg

101

Physiologic Neuroendocrine Arousal by Mental Arithmetic Stress Test in Healthy Subjects

Kazunori Ushiyama, Takeshi Ogawa, Masanori Ishii, Ryuichi Ajisaka, Yasuro Sugishita, and Iwao Ito

## CASE REPORT

10

Dynamic Coronary Ostial Obstruction Due to Papillary Fibroelastoma Leading to Myocardial Ischemia and Infarction

Douglas H. Israel, Warren Sherman, John A. Ambrose, Samin Sharma, Noam Harpaz, and Michael Robbins

### FROM THE EDITOR

106

Some Good Cardiologic Books Published in 1990 William C. Roberts

## **INSTRUCTIONS TO AUTHORS on page 88**

JANUARY 15, 1991, VOL. 67, NO. 2

## CORONARY ARTERY DISEASE

109

The Unstable ST Segment Early After Thrombolysis for Acute Infarction and Its Usefulness as a Marker of Recurrent Ceronary Occlusion

Ki-ik Kwon, S. Benedict Freedman, Ian Wilcox, Kevin Allman, Ann Madden, Grant S. Carter, and Phillip J. Harris

116

Interpreting Results of Exercise Studies After Acute Myocardial Infarction Altered by Thrombolytic Therapy, Coronary Angioplasty or Bypass Carl J. Lavie, Raymond J. Gibbons, Alan R. Zinsmeister, and Bernard J. Gersh

121

In-Hospital Symptoms of Psychological Stress as Predictors of Long-Term Outcome After Acute Myocardial Infarction in Men

Nancy Frasure-Smith

128

Effect of Nifedipine on Total Ischemic Activity and Circadian Distribution of Myocardial Ischemic Episodes in Angina Pectoris

Richard W. Nesto, Roland T. Phillips, Kevin G. Kett, Lawrence S. McAuliffe, Mark Roberts, and Patricia Hegarty

133

Early Assessment of Coronary Artery Bypass Graft
Patency by High-Dose Dipyridamole Echocardiography
Angelo S. Bongo, Leonardo Bolognese, Gianni Sarasso,
Carmelo Cernigliaro, Donatella Aralda, Antonietta Carfora,
Cristina Piccinino, Andrea Campi, Lidia Rossi, and Paolo
Rossi

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

137

Reversion of Recent-Onset Atrial Fibrillation to Sinus Rhythm by Intravenous Flecainide

Karl D. Donovan, Geoffrey J. Dobb, Leigh J. Coombs, Kok-Yeng Lee, John W. Weekes, Challon J. Murdock, and Geoffrey M. Clarke

142

Ablation of the Atrioventricular Junction with Radiofrequency Energy Using a New Electrode Catheter

Jonathan J. Langberg, Michael Chin, David J. Schamp, Michael A. Lee, Jeffrey Goldberger, David N. Pederson, Michael Oeff, Michael D. Lesh, Jerry C. Griffin, and Melvin M. Scheinman

Relative Importance of Activation Sequence Compared to Atrioventricular Synchrony in Left Ventricular Function

Mårten Rosenqvist, Karl Isaaz, Elias H. Botvinick, Michael W. Dae, James Cockrell, Joseph A. Abbott, Nelson B. Schiller, and Jerry C. Griffin

### SYSTEMIC HYPERTENSION

### 157

Effects of Doxazosin on Blood Pressure, Renin-Angiotensin-Aldosterone and Urinary Kallikrein Mar.a Ch. Oliveros-Palacios, Nereyda Godoy-Godoy, and

## VALVULAR HEART DISEASE

José A. Colina-Chourio

#### 102

Effect of Mitral Regurgitation and Volume Loading on Pressure Half-Time Before and After Balloon Valvotomy in Mitral Stenosis

Thomas Wisenbaugh, Martin Berk, Rafique Essop, Shirley Middlemost, and Pinhas Sareli

## CARDIOMYOPATHY

#### 169

Sudden Death During Empiric Amiodarone Therapy in Symptomatic Hypertrophic Cardiomyopathy Lameh Fananapazir, Martin B. Leon, Robert O. Bonow,

Lameh Fananapazir, Martin B. Leon, Robert O. Bonow, Cynthia M. Tracy, Richard O. Cannon III, and Stephen E. Epstein

### 175

Value of Electrophysiologic Studies in Hypertrophic Cardiomyopathy Treated with Amiodarone Lameh Fananapazir and Stephen E. Epstein

### 183

Rarity of Preclinical Alcoholic Cardiomyopathy in Chronic Alcoholics <40 Years of Age

Manuel D. Cerqueira, George D. Harp, James L. Ritchie, John R. Stratton, and R. Dale Walker

### 199

Prognostic Value of Thallium-201 Perfusion Defects in Idiopathic Dilated Cardiomyopathy

Yoshinori L. Doi, Taishiro Chikamori, Jun Takata, Yoshihiro Yonezawa, Jan D. Poloniecki, Toshio Ozawa, and William J. McKenna

## CONGENITAL HEART DISEASE

### 194

Usefulness of Color-Flow Doppler in Diagnosing and In Differentiating Supracristal Ventricular Septal Defect from Right Ventricular Outflow Tract Obstruction Achi Ludomirsky, Lloyd Tani, Daniel J. Murphy, and James C. Huhta

## MISCELLANEOUS

## 199

Accuracy of Assessment of Cardiac Vagal Tone by Heart Rate Variability in Normal Subjects

Junichiro Hayano, Yusaku Sakakibara, Akira Yamada, Masami Yamada, Seiji Mukai, Takao Fujinami, Kiyoko Yokoyama, Yosaku Watanabe, and Kazuyuki Takata

### BRIEF REPORTS

### 205

Significance of Minimal Preexcitation in Wolff-Parkinson-White Syndrome

Wee Siong Teo, George J. Klein, Raymond Yee, James W. Leitch, and Challon J. Murdock

### 207

Comparison of Responses to Isoproterenol and Epinephrine During Head-Up Tilt in Suspected Vasodepressor Syncope

Hugh Calkins, Alan Kadish, Joao Sousa, Shimon Rosenheck, and Fred Morady

## 209

Frequency of Valvular Regurgitation by Color Doppler Echocardiography in Systemic Lupus Erythematosus Katsuaki Enomoto, Yoshikazu Kaji, Takehito Mayumi, Yasuo Tsuda, Shozo Kanaya, Kohei Nagasawa, Takehiko Fujino, and Yoshiyuki Niho

### 213

Hemodynamic Study During Upright Isotonic Exercise Before and Six Months After Dynamic Cardiomyoplasty for Idiopathic Dilated Cardiomyopathy or Chagas' Disease

Edimar Alcides Bocchi, Luiz Felipe Moreira, Giovanni Bellotti, Antonio C.P. Barreto, Luiz G.S. Azul, Noedir Stolf, Adib Jatene, and Fulvio Pileggi

### 215

Prognosis of Nonobstructive Hypertrophic Cardiomyopathy

Leon A. Aron, Harry L. Hertzeanu, Enrique Z. Fisman, Ilan S. Nosrati, and Jan J. Kellermann

### 217

Left Ventricular Function in Patients >20 Years of Age with Ebstein's Anomaly of the Tricuspid Valve
Anita Saxena, Lance V. Fong, Maria Tristam, Duncan M. Ackery, and Barry R. Keeton

### 219

ST-Segment Depression After Cardiac Transplantation and Its Usefulness as an Indicator of Acute Rejection Bernd Heublein, Jörg Winter, Josef Kemnitz, Thorsten Wahlers, and Axel Haverich

### 222

Usefulness of Systolic Excursion of the Mitral Anulus as an Index of Left Ventricular Systolic Function Ramdas G. Pai, Monty M. Bodenheimer, Sudha M. Pai, Jerome H. Koss, and Richard D. Adamick

**INSTRUCTIONS TO AUTHORS on page 212** 

### JANUARY 25, 1991, VOL. 67, NO. 3

## A SYMPOSIUM: ADJUNCTIVE THERAPIES IN THROMBOLYSIS

## FEBRUARY 1, 1991, VOL. 67, NO. 4

### **CORONARY ARTERY DISEASE**

225

Complete Atrioventricular Block Complicating Inferior Wall Acute Myocardial Infarction Treated with Reperfusion Therapy

Peter Clemmensen, Eric R. Bates, Robert M. Califf, Mark A. Hlatky, Lynne Aronson, Barry S. George, Kerry L. Lee, Dean J. Kereiakes, Gerald Gacioch, Eric Berrios, Eric J. Topol, and the TAMI Study Group

231

Prognostic Importance of Delayed Q-Wave Evolution 3 to 24 Hours After Initiation of Thrombolytic Therapy for Acute Myocardial Infarction

Mark J. Eisenberg, Gabriel I. Barbash, Hanoch Hod, Arie Roth, Amir Shachar, Lea Zolti, Babeth Rabinowitz, Elieser Kaplinsky, Shlomo Laniado, and Michaela Modan

236

Regional Cardiac Adrenergic Function Using I-123 Meta-lodobenzylguanidine Tomographic Imaging After Acute Myocardial Infarction

A. Iain McGhie, James R. Corbett, Marvin S. Akers, Padmakur Kulkarni, Michael N. Sills, Mark Kremers, L. Maximilian Buja, Marc Durant-Reville, Robert W. Parkey, and James T. Willerson

243

Insensitivity of Noninvasive Tests to Detect Coronary Artery Vasculopathy After Heart Transplant

Frank W. Smart, Christie M. Ballantyne, Beth Cocanougher, John A. Farmer, Michael E. Sekela, George P. Noon, and James B. Young

248

Comparative Effects of Overweight on Cardiovascular Risk in Younger Versus Older Men

282

Immediate and Short-Term Results of a 1988–1989 Coronary Angioplasty Registry

Francis Stammen, Jan Piessens, Matty Vrolix, James J. Glazier, Hilaire De Geest, and Jos L. Willems

Brent M. Egan, David R. Bassett, and Walter D. Block

## CONGESTIVE HEART FAILURE

250

Sustained Reduction in Valvular Regurgitation and Atrial Volumes with Tailored Vasodilator Therapy in Advanced Congestive Heart Failure Secondary to DSated (Ischemic or Idiopathic) Cardiomyopathy Michele A. Hamilton, Lynne W. Stevenson, John S. Child, Jaime D. Moriguchi, Julie Walden, and Mary Woo

## **VALVULAR HEART DISEASE**

264

Frequency and Severity of Mitral Regurgitation One Year After Balloon Mitral Valvuloplasty

Ju-Pin Pan, Shoa-Lin Lin, Jorge Uy Go, Tsui-Leih Hsu, Chung-Yin Chen, Shih-Pu Wang, Benjamin N. Chiang, and Mau-Song Chang

269

Reference Values and Reproducibility of Doppler Echocardiography in the Assessment of the Tricuspid Valve and Right Ventricular Diastolic Function in Normal Subjects

Maurice P. Pye, Stuart D. Pringle, and Stuart M. Cobbe

## CARDIOMYOPATHY

274

Left Ventricular Size, Mass and Function in Relation to the Duration and Quantity of Heavy Drinking in Alcoholics

Markku Kupari, Pekka Koskinen, and Antti Suokas

280

Hemodynamic and Electrophysiologic Evaluation of Patients with Hypertrophic Cardiomyopathy Surviving Cardiac Arrest

Lameh Fananapazir and Stephen E. Epstein

## CONGENITAL HEART DISEASE

288

Uses and Limitations of Transthoracic Echocardiography in the Assessment of Atrial Septal Defect in the Adult

Rajendra H. Mehta, Frederick Helmcke, Navin C. Nanda, Luiz Pinheiro, Tandaw E. Samdarshi, and Vinod K. Shah

### MISCELLANEOUS

295

Congestive Heart Failure, Coronary Events and Atherothrombotic Brain Infarction in Elderty Blacks and Whites With Systemic Hypertension and With and Without Echocardiographic and Electrocardiographic Evidence of Left Ventricular Hypertrophy Wilbert S. Aronow, Chul Ahn, Itzhak Kronzon, and Mordecai Koenigsberg

### CARDIOVASCULAR PHARMACOLOGY

300

Evaluation of the Pharmacokinetics and Electrocardiographic Effects of Intravenous Verapamil with Intravenous Calcium Chloride Pretreatment in Normal Subjects

Marieke Dekker Schoen, Robert B. Parker, Timothy J. Hoon, Robert J. Hariman, Jerry L. Bauman, and Karen J. Beckman

### **BRIEF REPORTS**

305

Patterns of ST-Segment Change During Acute No-Flow Myocardial Ischemia Produced by Balloon Occlusion During Angioplasty of the Left Anterior Descending Coronary Artery

Avanindra Jain and Leonard S. Gettes

307

Doppler Echocardiographic Findings in Normal-Functioning St. Jude Medical and Bjork-Shiley Mechanical Prostheses in the Tricuspid Valve Position Vicens Mart

Correlation of the Physiologic Parameters of a Continuous Ramp Versus an Incremental James Exercise Protocol in Normal Children

Carol S. Tanner, Charles T. Heise, and Gerald Barber

313

Risk of Dysphagia After Transesophageal Echocardiography

Anthony G. Messina, Mary Paranicas, Steven Fiamengo, Fun-Sun Yao, Karl Krieger, O. Wayne Isom, and Richard B. Devereux

314

Importance of Technical Variables for Quantitative Measurements by Color Doppler Imaging Helmut Baumgartner, Heinrich Schima, and Peter Kühn

CASE REPORTS

317

Mercury in the Heart

Steven V. Manoukian and Nanette K. Wenger

318

Reversible "Cardiomyopathy" After Accidental Adrenaline Overdose

Alistair I. Fyfe, Paul A. Daly, Paul Dorian, and Judith Tough

319

Persistent Left Fifth Aortic Arch with Complex Coarctation

Candace L. Gibbin, Frank M. Midgley, Barry M. Potter, and Gerard R. Martin

221

Tricuspid Valve Honk Due to Pulmonary Hypertension Secondary to Left Atrial Myxoma

Michael P. Cecil and Mark E. Silverman

READERS' COMMENTS

322

Atrial Natriuretic Peptide and Chronic Constrictive Pericardial Heart Disease

Ejection Fraction and Induced Sustained Ventricular Tachycardia

323

Quadricuspid Aortic Valve

324

Endomyocardial Biopsy in Cardiac Transplant Recipients Using the Femoral Venous Approach

Vasomotor Properties of Internal Mammary Arteries, Saphenous Vein Bypass Grafts and Native Coronary Arteries

325

Comparison of Proximal Left Anterior Descending and Circumflex Coronary Artery Dimensions in Aortic Valve Stenosis and Hypertrophic Cardiomyopathy

Intravenous Amiodarone for Conversion of Atrial Fibrillation to Sinus Rhythm

Do Multiple Short Bouts of Exercise Really Produce the Same Benefits as Single Long Bouts?

327

Can the Dipyridamole-Doppler Stress Test Detect Myocardial Ischemia?

**Cardiac Transplantation and Cancer** 

Atrial Septal Aneurysm as a "Newly Discovered" Cause of Stroke in Patients with Mitral Valve Prolapse

328

Interaction Between Amiodarone and Phenytoin

325

The Sleep Electrocardiogram at Extreme Altitudes Right Ventricular Diastolic Function in Children

330

Sudden Death Associated with Exercise: The Risk-Benefit Issue

**Subgroup Analysis of Clinical Trials** 

332

Pharmacologic Management of Ventricular Arrhythmias

**Bird Brains** 

333

Therapeutic Equivalency of Procainamide—A Correction

Treatment Algorithms for Patients with Ventricular Arrhythmias

334

Preoperative Imaging of the Internal Thoracic Artery

Antiarrhythmic Drugs and Cardiac Death End Points

Correction

INSTRUCTIONS TO AUTHORS on page 316

FEBRUARY 15, 1991, VOL. 67, NO. 5

CORONARY ARTERY DISEASE

335

Electrocardiographic Subset Analysis of Diltiazem Administration on Long-Term Outcome After Acute Myocardial Infarction

William E. Boden, Ronald J. Krone, Robert E. Kleiger, David Oakes, Henry Greenberg, Edward J. Dwyer, Jr., J. Philip Miller, Jonathan Abrams, James Coromilas, Robert Goldstein, Arthur J. Moss, and the Multicenter Diltiazem Post-Infarction Trial Research Group

Dynamic QRS-Complex and ST-Segment Monitoring in Acute Monitoring Infarction During Recombinant Tissue-Type Plasminogen Activator Therapy Mikael Dellborg, Martin Riha, and Karl Swedberg

350

Exercise Echocardiography and Technetium-99m MIBI Single-Photon Emission Computed Tomography in the Detection of Coronary Artery Disease

Massimo M. A. Pozzoli, Paolo M. Fioretti, Alessandro Salustri, Ambroos E. M. Reiis, and Jos R. T. C. Roelandt

356

Impaired Left Ventricular Filling and Regional Diastolic Asynchrony at Rest in Coronary Artery Disease and Relation to Exercise-Induced Myocardial Ischemia Pasquale Perrone-Filardi, Stephen L. Bacharach, Vasken Dilsizian, and Robert O. Bonow

361

The Dutch Experience in Percutant has Transluminal Angioplasty of Narrowed Saphenous Veins Used for Aortocoronary Arterial Bypass

H. W. Thijs Plokker, B. Hannie Meester, and Patrick W. Serruys

367

Predictors of Cardiac Survival After Percutaneous Transluminal Coronary Angioplasty in Patients with Severe Left Ventricular Dysfunction

Harvey Serota, Ubevdullah Deligonul, Woo-Hyeong Lee, Frank Aguirre, Morton J. Kern, Sue A. Taussig, and Michel G. Vandormael

373

Effects of Diltiazem on Complications and Restenosis After Coronary Angioplasty

James H. O'Keefe, Jr., Lee V. Giorgi, Geoffrey O. Hartzler, Thomas H. Good, Robert W. Ligon, Deborah L. Webb, and Ben D. McCallister

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

377

Atrial Natriuretic Peptide Response to Cardioversion of Atrial Flutter and Fibrillation and Role of Associated Heart Failure

Sakti Mookherjee, Gunnar Anderson, Jr., Harold Smulyan, and Suman Vardan

38

Sudden Cardiac Death While Wearing a Holter Monitor Klaus V. Olshausen, Thomas Witt, Tiberius Pop, Norbert Treese, Klaus-Peter Bethge, and Jürgen Meyer

387

Late Results of the Left Subcostal Approach for Automatic Implantable Cardioverter Defibrillator Implantation

Padraig G. O'Neill, Gerald M. Lawrie, Raj R. Kaushik, Lynette F. Harvill, and Antonio Pacifico

### **CONGESTIVE HEART FAILURE**

391

Influence of Dilated Cardiomyopathy, Myocarditis and Cardiac Transplantation on the Relation Between Plasma Atrial Natriuretic Factor and Atrial Pressures Joshua M. Hare, Kenneth L. Baughman, David A. Kass, Steven N. Goodman. and Paul W. Ladenson

## **VALVULAR HEART DISEASE**

398

Beneficial Effect of Atrial Pacing in Severe Acute Aortic Regurgitation and Role of M-Mode Echocardiography in Determining the Optimal Pacing Interval

Theo E. Meyer, Pinhas Sareli, Richard H. Marcus, Jai Patel, and Martin R. Berk

## CARDIOMYOPATHY

404

Simultaneous Occurrence of Mitral Valve Prolapse and Systolic Anterior Motion in Hypertrophic Cardiomyopathy

Julio A. Panza and Barry J. Maron

411

Comparison of Left Ventricular Ejection Fraction by Magnetic Resonance Imaging and Radionuclide Ventriculography in Idiopathic Dilated Cardiomyopathy Carlo Gaudio, Gaetano Tanzilli, Pietro Mazzarotto, Mario Motolese, Francesco Romeo, Benedetto Marino, and Attilio Reale

## MISCELLANEOUS

416

Stroke Volume During Submaximal Exercise in Endurance-Trained Normotensive Subjects and in Untrained Hypertensive Subjects with Beta Blockade (Propranolol and Pindolol)

Kathy D. Scruggs, Nicholaus B. Martin, Craig E. Broeder, Zandrie Hofman, Evan L. Thomas, Kathleen C. Wambsgans, and Jack H. Wilmore

## **EDITORIAL**

422

Therapeutic Cardiac Ultrasound

Richard S. Meltzer, Karl Q. Schwarz, Jack G. Mottley, and Eric C. Everbach

## **BRIEF REPORTS**

425

Relation Between Late Potentials and Echocardiographically Determined Left Ventricular Mass in Healthy Subjects

Mass in Healthy Subjects
Angelo A. Raineri, Marcello Traina, Renzo M. R. Lombardo, and Antonino Rotolo

Epinephrine Versus Norepinephrine in Prehospital Ventricular Fibrillation

Karl H. Lindner, Friedrich W. Ahnefeld, and Adolf Grünert

428

Transcatheter Laser-Assisted Balloon Pulmonary Valve Dilation in Pulmonic Valve Atresia

Shakeel A. Qureshi, Eric Rosenthal, Michael Tynan, Rui Anjos, and Edward J. Baker

431

Atherectomy of Right Coronary Ostial Stenoses: Initial and Long-Term Results, Technical Features and Histologic Findings

Jeffrey J. Popma, Ronald J. L. Dick, Christian C. Haudenschild, Eric J. Topol, and Stephen G. Ellis

435

Insights into the Mechanism of Luminal Improvement After Directional Coronary Atherectomy

William F. Penny, Dwayne A. Schmidt, Robert D. Safian, Raymond E. Erny, and Donald S. Baim

437

Acute Complications Associated with New-Onset Atrial Fibrillation

Harold Z. Friedman, Scot F. Goldberg, John D. Bonema, David R. Cragg, and Andrew M. Hauser

439

Time Course of Changes in Pulmonary Vascular Resistance and the Mechanism of Regression of Pulmonary Arterial Hypertension After Balloon Mitral Valvoplasty

Vishwa Dev and Savitri Shrivastava

## **CASE REPORT**

443

Biologic Intoxication Due to Digitalis Like Substance After Ingestion of Cooked Toad Soup

Ming-Shyan Chern, Ching-Ying Ray, and Delon Wu

## FROM THE EDITOR

445

"Anything To Be Done Right Has Got To Be Done By People That Make Their Living At It"

William C. Roberts

**INSTRUCTIONS TO AUTHORS on page 434** 

MARCH 1, 1991, VOL. 67, NO. 6

## **CORONARY ARTERY DISEASE**

447

Expanded Clinical Evaluation of Lovastatin (EXCEL) Study Results II. Assessment of the Human Lens After 48 Weeks of Treatment with Lovastatin

Alan M. Laties, Charles L. Shear, Erik A. Lippa, A. Lawrence Gould, Hugh R. Taylor, Dennis P. Hurley, Wendy P. Stephenson, Edwin U. Keates, Mary Ann Tupy-Visich, and Athanassios N. Chremos 454

Effect of Left Ventricular Aneurysm on Risk of Sudden and Nonsudden Cardiac Death

Constantine A. Hassapoyannes, Leslie M. Stuck, Carlton A. Hornung, Michael C. Berbin, and Nancy C. Flowers

460

Angiographic Morphology in Unstable Angina and its Relation to Transient Myocardial Ischemia and Hospital Outcome

Raffaele Bugiardini, Andrea Pozzati, Alberico Borghi, Gian Luigi Morgagni, Filippo Ottani, Antongiulio Muzi, and Paolo Buddu

465

Anginal Symptoms Without Ischemic Electrocardiographic Changes During Ambulatory Monitoring in Men With Coronary Artery Disease Dirk Hausmann, Peter Nikutta, Werner G. Daniel, Paul Wenziaff, and Paul R. Lichtlen

470

Dependence of Doppler Echocardiographic Transmitral Early Peak Velocity on Left Ventricular Systolic Function in Coronary Artery Disease

Shinji Miki, Tomoyuki Murakami, Tomoyuki Iwase, Tetsuya Tomita, Yukisono Suzuki, and Chuichi Kawai

479

Relation of Serum Lipoprotein Cholesterol Levels to Presence and Severity of Angiographic Coronary Artery Disease

Philip A. Romm, Curtis E. Green, Kathleen Reagan, and Charles E. Rackley

484

Edge Detection Versus Densitometry for Assessing Coronary Stenting Quantitatively

Bradley H. Strauss, Yves Juilliere, Benno J. Rensing, Johan H. C. Reiber, and Patrick W. Serruys

491

Frequency of Success and Complications of Coronary Angioplasty of a Stenosis at the Ostium of a Branch Vessel

David W. Mathias, Jodi Fishman Mooney, Helmut W. Lange, Irvin F. Goldenberg, Fredarick L. Gobel, and Michael R. Mooney

496

Pericardial Effusion After Intravenous Recombinant Tissue-Type Plasminogen Activator for Acute Myocardial Infarction

Robert N. Belkin, Daniel B. Mark, Lynn Aronson, Hanna Szwed, Robert M. Califf, and Joseph Kisslo

E01

Comparison of the Efficacy of Questran Light, a New Formulation of Cholestyramine Powder, to Regular Questran in Maintaining Lowered Plasma Cholesterol Levels

William Insull, Jr., Norman R. Marquis, and Michael C. Tsianco

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

506

Characteristics of Accessory Pathways Exhibiting Decremental Conduction

Challon J. Murdock, James W. Leitch, Wee Siong Teo, Arjun D. Sharma, Raymond Yee, and George J. Klein

...

Usefulness of d, I Sotalol for Suppression of Chronic Ventricular Arrhythmias

Maria I. Anastasiou-Nana, Edward M. Gilbert, Ronald H. Miller, Steven Singh, Roger A. Freedman, Deborah L. Keefe, Sanjeev Saksena, Daniel J. MacNeil, and Jeffrey L. Anderson

## **VALVULAR HEART DISEASE**

517

Doppler Echocardiographic Comparison of the Carpentier and Duran Anuloplasty Rings Versus No Ring After Mitral Valve Repair for Mitral Regurgitation Brigitte Unger-Graeber, Richard T. Lee, Martin St. John Sutton, Maureen Plappert, John J. Collins, and Lawrence H. Cohn

## MISCELLANEOUS

520

Influence of Sympathetic Stimulation and Parasympathetic Withdrawal on Doppler Echocardiographic Left Ventricular Diastolic Filling Velocities in Young Normal Subjects

Karl-Arne Johannessen, Manuel Cerqueira, Richard C. Veith, and John R. Stratton

## BRIEF REPORTS

527

Effects of Aminophylline on Atrioventricular Conduction in Patients with Late Atrioventricular Block During Inferior Wall Acute Myocardial Infarction Boris Strasberg, Rony Bassevich, Aviv Mager, Jairo Kusniec, Alex Sagie, and Samuel Sclarovsky

529

Detection of Myocardial Viability in Stunned or Hibernating Myocardium by Delayed Emptying on Radionuclide Ventriculography

Vivian B. Fernandes, S. Ben Freedman, Kevin C. Allman, George J. Bautovich, Brian F. Hutton, Andrew F. McLaughlin, Eleanor K. Whitehead, David T. Kelly, Phillip J. Harris, D Phil, and John G. Morris

533

Prognostic Significance of Hydropericardia and Pericardial Friction Rub in Q-Wave Acute Myocardial

Tetsuro Sugiuri, Toshiji Iwasaka, Nobuyuki Takahashi, Fumio Yuasa, Hisako Tsuji, Tadashi Hasegawa, Masahide Matsutani, and Mitsuo Inada

535

Impaired Hepatic Function Tests After Thrombolysis for Acute Myocardial Infarction

Dov Freimark, Ron Leor, Hanoch Hod, Dan Elian, Elieser Kaplinsky, and Babeth Rabinowitz

537

Influence of Gender on Inducibility of Ventricular Arrhythmias in Survivors of Cardiac Arrest with Coronary Artery Disease

Paul T. Vaitkus, K. Elizabeth Kindwall, John M. Miller, Francis E. Marchlinski, Alfred E. Buxton, and Mark E. Josephson

541

Frequency of Late Potentials in Systemic Scierosis
Debra K. Moser, William G. Stevenson, Mary A. Woo, Steven
R. Weiner, Philip J. Clements, Sharon M. Suzuki, Connie L.
Wright, John S. Child, Janine Krivokapich, and Antoine
Alhaiie

544

Effect of Balloon Aortic Valvuloplasty on Doppler Indexes of Left Ventricular Diastolic Filling Warren J. Manning, Marilyn F. Riley, and Patricia C. Come

547

A Doppler Echocardiographic Examination of the Normal Aortic Valve and Left Ventricular Outflow Tract

William R. Davidson, Jr., Michael J. Pasquale, and Claude Fanelli

## READERS' COMMENTS

550

Preoperative Angiography of the Internal Mammary Artery

Wing-Hing Chow and Tsun-Cheng Chow

A Grizzly Paradox

W.B. Firor

Triffuoperazine and Spontaneous Contrast Cheryl Mahony, Kevin L. Sublett, and Michael R. Harrison

### FROM THE EDITOR

551

Comparison of the Four Major USA Cardiology Journals in 1990: A Look at 51 Kilograms (112 Pounds) of Journals and Over 15,000 Editorial Pages William C. Roberts

## **INSTRUCTIONS TO AUTHORS on page 540**

MARCH 15, 1991, VOL. 67, NO. 7

### **CORONARY ARTERY DISEASE**

555

Early Beneficial Effect of Streptokinase on Left Ventricular Function in Acute Myocardial Infarction Florence H. Sheehan, Claude Thery, Philippe Durand, Michel E. Bertrand, and Edward L. Bolson

559

Effects of Nisoldipine on Myocardial Ischemia During Exercise and During Daily Activity

Dan Tzivoni, Shmuel Banai, Shulamit Botvin, Avraham Zilberman, Teddy A. Weiss, Alex Gavish, Aharon Medina, Jesaia Benhorin, Shlomo Rogel, Avraham Caspi, and Shlomo Stern

Usefulness of Blood Lactate as a Predictor of Shock Development in Acute Myocardial Infarction

Zarko Mavrić, Luka Zaputović, Davorka Zagar, Ante Matana, and Davor Smokvina

#### 569

Long-Term Follow-Up of the First 56 Patients Treated with Intracoronary Self-Expanding Stents (The Lausanne Experience)

Jean-Jacques Goy, Ulrich Sigwart, Pierre Vogt, Jean-Christophe Stauffer, Urs Kaufmann, Philippe Urban, and Lukas Kappenberger

#### 573

Capabilities of Supine Exercise Electrocardiography Versus Exercise Radionuclide Angiography in Predicting Coronary Events

Robert D. Simari, Todd D. Miller, Alan R. Zinsmeister, and Raymond J. Gibbons

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

#### 578

Cardiac Arrest in Seattle: Conventional Versus
Amiodarone Drug Evaluation (The CASCADE Study)
The CASCADE Investigators

#### SYSTEMIC HYPERTENSION

#### 5.05

Relation of Cardiac Output at Rest and During Exercise to Age in Essential Hypertension

Robert Fagard and Jan Staessen

### 590

Comparison of the Effects of Guanadrel Sulfate and Propranolol on Blood Pressure, Functional Capacity, Serum Lipoproteins and Glucose in Systemic Hypertension

Linda L. Darga, Mark J. Hakim, Charles P. Lucas, and Barry A. Franklin

### E07

Comparison of Ambulatory Left Ventricular Ejection Fraction and Blood Pressure in Systemic Hypertension in Patients With and Without Increased Left Ventricular Mass

Warren M. Breisblatt, Cynthia J. Wolf, Beverly McElhinny, Rosemarie Salerni, and Vivienne E. Smith

## **CONGESTIVE HEART FAILURE**

### 604

Abnormal Baroreflex Control of Heart Rate in Decompensated Congestive Heart Failure and Reversal After Compensation

José A. Marin-Neto, Antonio O. Pintya, Lourenço Gallo, Jr., and Benedito C. Maciel

## VALVULAR HEART DISEASE

### 611

Doppler Echocardiographic Study of Porcine Bioprosthetic Heart Valves in the Aortic Valve Position in Patients Without Evidence of Cardiac Dysfunction Sharon C. Reimold, Ajit P. Yoganathan, H-W Sung, Lawrence H. Cohn, Martin G. St. John Sutton, and Richard T. Lee

### 616

Clinical and Doppler Echocardiographic Follow-Up After Percutaneous Balloon Valvuloplasty for Aortic Valve Stenosis

Annette Geibel, Wolfgang Kasper, Nikolaus Reifart, Thomas Faber, and Hanjörg Just

## MISCELLANEOUS

#### 622

Effect of Heart Rate on Left Ventricular Diastolic Transmitral Flow Velocity Patterns Assessed by Doppler Echocardiography in Normal Subjects Michael R. Harrison, G. Dennis Clifton, Andrew T. Pennell, and Anthony N. DeMaria, with the technical assistance of Annette Cater

## 628

Effects of the Immunosuppressant Cyclosporine on the Circulation of Heart Transplant Recipients
John P. Scott, Tim W. Higenbottam, John A. Hutter, Stephen Large, and John Wallwork

## 633

Effects of Exercise Training on Cardiorespiratory
Function in Men and Women >60 Years of Age
James A. Blumenthal, Charles F. Emery, David J. Madden, R.
Edward Coleman, Margaret W. Riddle, Susan Schniebolk,
Frederick R. Cobb, Martin J. Sullivan, and Michael B.
Higginbotham

## **EDITORIAL**

## 641

A Plea for Two Actions That Need to be Taken Norman M. Kaplan

## **BRIEF REPORTS**

### 642

Is ST Elevation the Only Electrocardiographic Response of the Ischemic Right Ventricle? David W. Krueger, Douglass A. Morrison, J. Kern Buckner, Kathleen Kelley, and JoAnn Lindenfeld

### CAR

Differentiating Anginal Patients with Coronary Artery Disease from Those with Normal Coronary Arteries Using Psychological Measures

James H. McCroskery, Robert E. Schell, Robert P. Sprafkin, Larry J. Lantinga, Robert A. Warner, and Norma Hill

### GAT

Lidocaine Toxicity After Subcutaneous Infiltration in Children Undergoing Cardiac Catheterization
John M. Palmisano, Jon N. Meliones, Dennis C. Crowley, Jean M. Martin, Kim H. Truman, Brad A. Krauzowicz, and Albert P. Rocchini

## 648

Indexing Repetitive to Single Ventricular Premature Complexes: A New Concept in Acute Drug Testing Kenneth M. Kessler, Agustin Castellanos, and Robert J. Myerburg

### 650

Accuracy of Cross-Sectional Echocardiography in Diagnosis of Aortopulmonary Window
Seshadri Balaji, Michael Burch, and Ian D. Sullivan

Frequency of Occurrence of Residual Ductal Flow After Surgical Ligation by Color-Flow Mapping
Keld E. Sørensen, Bent Ø. Kristensen, and Ole K. Hansen

Electrocardiographic, Enzymatic and Echocardiographic Evidence of Myocardial Damage After Tityus Serrulatus Scorpion Poisoning

Carlos Faria Santos Amaral, José Agostinho Lopes, Renato Almeida Magalhães, and Nilton Alves de Rezende

### CASE PEPORTS

**Creation of Pseudo Narrowing During Coronary** Angioplasty

Alan N. Tenaglia, James E. Tcheng, Harry R. Phillips, III, and Richard S. Stack

659

Myocardial Ischemia-Induced Transient Anterior **Londuction Delay** 

Constantine A. Hassapoyannes and William P. Nelson

Endomyocardial Biopsy Finding in Two Patients with Idiopathic Dilated Cardiomyopathy Receiving Long-Term Treatment with Amiodarone

Eloisa Arbustini, Maurizia Grasso, Jorge A. Salerno, Antonello Gavazzi, Angela Pucci, Manuela Bramerio, Alberto Calligaro, and Victor J. Ferrans

662

Intravascular Ultrasound for Diagnosis of Aortic

Abhay Pande, Bernhard Meier, Martin Fleisch, Raoul Kammerlander, François Simonet, and René Lerch

Mitral Valve Origin of Pedunculated Rhabdomyomas **Causing Subaortic Stenosis** 

Ramakrishna Pillai, Nabil Kharma, A. Gerard Brom, and Anton F. Becker

INSTRUCTIONS TO AUTHORS on page 640

APRIL 1, 1991, VOL. 67, NO. 8

CORONARY ARTERY DISEASE

665

Comparison of Celiprolol and Propranolol in Stable **Angina Pectoris** 

William H. Frishman, Mark Heiman, Judith Soberman, Steven Greenberg, and Jack Eff, for the Celiprolol International Angina Study Group

Effects of Atenolol Alone, Nifedipine Alone and Their Combination on Ambulant Myocardial Ischemia James A. Hill, Jose I. Gonzalez, Robert Kolb, and Carl J. Pepine

676

Spontaneous Myocardial Ischemia and the Signal-Averaged Electrocardiogram

Gioia Turitto, Edward B. Caref, Egidio Zanchi, Fabio Menghini, George Kelen, and Nabil El-Sherif

Right Ventricular Systolic Function During Exercise With and Without Significant Coronary Artery Diseas J. Thomas Heywood, Joerg Grimm, Otto M. Hess, Markus Jakob, and Hans P. Krayenbuehl

687

Coronary Collateral Circulation in Coronary Artery Disease and Systemic Hypertension

Zenon S. Kyriakides, Dimitrios T. Kremastinos, Nickolas A. Michelakakis, Evangelos P. Matsakas, Thomas Demovelis, and Pavlos K. Toutouzas

Results of Intracoronary Stents for Management of **Coronary Dissection After Balloon Angioplasty** Michael Haude, Raimund Erbel, Uwe Straub, Ulrich Dietz, Richard Schatz, and Jürgen Meyer

ARRHYTHMIAS AND CONDUCTION DISTURBANCES

Reduction in the Frequency of Ventricular Late Potentials After Acute Myocardial Infarction by Early Thrombolytic Therapy
Marc Zimmermann, Richard Adamec, and Stefano Ciaroni,

with the technical assistance of Florida Malbois and Roland Tièche

704

Late Outcome of Survivors of Out-of-Hospital Cardiac Arrest With Left Ventricular Ejection Fractions ≥50% and Without Significant Coronary Arterial Narrowing Peter J. Kudenchuk, Leonard A. Cobb, H. Leon Greene,

Carol E. Fahrenbruch, and Florence H. Sheehan

Comparison of Clinical and Electrophysiologic Features of Preexcitation Syndromes in Patients Presenting Initially After Age 50 Years with Those Presenting at Younger Ages Lynda E. Rosenfeld, Alice M. Van Zetta, and William P.

Batsford

713

Usefulness of Flecainide for Prevention of Paroxysmal Atrial Fibrillation and Flutter

Adrian H. Pietersen and Henning Hellemann, for the Danish Norwegian Flecainide Multicenter Study Group

Time of Onset of Supraventricular Tachyarrhythmia in Relation to Alcohol Consumption

Markku Kupari and Pekka Koskinen

SYSTEMIC HYPERTENSION

723

Mean and Range of the Ambulatory Pressure in Normotensive Subjects from a Meta-Analysis of 23

Jan A. Staessen, Robert H. Fagard, Paul J. Lijnen, Lutgarde Thiis, Roger Van Hoof, and Antoon K. Amery

Hemodynamic and Neurohormonal Effects of Quinidine in Patients with Severe Left Ventricular Dysfunction Secondary to Coronary Artery Disease or Idiopathic **Dilated Cardiomyopathy** Stephen S. Gottlieb and Michelle Weinberg

#### 732

Effects of Prolonged Infusion of Human Alpha Calcitonin Gene-Related Peptide on the Hemodynamics, Renal Blood Flow and Hormone Levels in Congestive

Y. Chandra Shekhar, Inder S. Anand, Raghav Sarma, Roberto Ferrari, Purshotam L. Wahi, and Philip A. Poole-Wilson

## CONGENITAL HEART DISEASE

Analysis of Survival in Patients with Pulmonic Valve Atresia and Ventricular Septal Defect

Michael Hofbeck, Jan T. Sunnegardh, Patricia E. Burrows, C. A. F. Moes, Nancy Lightfoot, William G. Williams, George A. Trusler, and Robert M. Freedom

Pulmonary Artery Morphology and Hemodynamics in Pulmonic Valve Atresia with Ventricular Septal Defect Before and After Repair

Yasuhisa Shimazaki, Masahiko Iio, Susumu Nakano, Shizuo Morimoto, Seiichiro Ikawa, Hikaru Matsuda, and Yasunaru Kawashima

### MISCELLANEOUS

Catheter-Based Intravascular Ultrasound Imaging of Chronic Thromboembolic Pulmonary Disease François Ricou, Pascal H. Nicod, Kenneth M. Moser, and Kirk L. Peterson

## METHODS

Assessment of Right Ventricular Oxidative Metabolism by Positron Emission Tomography with C-11 Acetate in Aortic Valve Disease

Rodney J. Hicks, Victor Kalff, Vicky Savas, Mark R. Starling, and Markus Schwaiger

### 758

Validity of Catheter-Tip Doppler Technique in Assessment of Coronary Flow Velocity and Application of Spectrum Analysis Method Masakazu Yamagishi, Daisuke Hotta, Jun Tamai, Satoshi

Nakatani, and Kunio Miyatake

## EDITORIAL

On Jumbo and Junk Trials: A Fumbled Affair, a Jungle, or the Ultimate Solution?

Paul G. Hugenholtz

## BRIEF REPORTS

#### 765

Effects of Superoxide Dismutase on Reperfusion Arrhythmias and Left Ventricular Function in Patients Undergoing Thrombolysis for Anterior Wall Acute **Myocardial Infarction** 

Yoshiharu Murohara, Yoshiki Yui, Ryuichi Hattori, and Chuichi Kawai

Incidence and Presumed Etiology of Ventricular **Fibrillation During Coronary Angioplasty** 

Edmund Brennan, Peter R. Mahrer, and Vicken J. Aharonian

Comparison Between Ventricular Inhibited Pacing and Physiologic Pacing in Sick Sinus Syndrome

Yasuyuki Sasaki, Akiko Furihata, Kazuhiro Suyama, Yasutaka Furihata, Seiichi Koike, Takeshi Kobayashi, Masahiro Shimotori, Kunio Akahane, and Seiichi Furuta

Variability of the QT Measurement in Healthy Men, with Implications for Selection of an Abnormal QT Value to Predict Drug Toxicity and Proarrhythmia Joel Morganroth, Frank V. Brozovich, John T. McDonald, and Robert A. Jacobs

Prevalence and Severity of Valvular Aortic Stenosis Determined by Doppler Echocardiography and Its Association with Echocardiographic and Electrocardiographic Left Ventricular Hypertrophy and Physical Signs of Aortic Stenosis in Elderly Patients Wilbert S. Aronow and Itzhak Kronzon

Mitral Regurgitation During B Bump of the Mitral Valve Studied by Doppler Echocardiography Yutaka Otsuji, Hitoshi Toda, Toshiro Ishigami, Souki Lee, Hideki Okino, Shinichi Minagoe, Shoichiro Nakao, Hiromitsu Tanaka

### 781

**Aortic Aneurysm in Patients with Functionally Normal** or Minimally Stenotic Bicuspid Aortic Valve Roman T. Pachulski, Anthony L. Weinberg, and Kwan-Leung Chan

## 782

Effect of Cyclosporine on Plasma Endothelin Levels in Humans After Cardiac Transplantation Brooks S. Edwards, Sharon A. Hunt, Michael B. Fowler. Hannah A. Valantine, Lisbeth M. Anderson, and Amir Lerman

## 785

**Usefulness of the Subaortic Diameter for Normalizing** Left Ventricular and Left Atrial Dimensions Michael J. Domanski, Robert E. Cunnion, and William C.

Complications of Diagnostic Cardiac Catheterization Requiring Surgical Intervention

Jon R. Cohen, Frederic Sardari, Lauren Glener, John Peralo, Andrew Grunwald, Gary Friedman, Jerome Koss, Obi Nwasokwa, and Monty Bodenheimer

## **INSTRUCTIONS TO AUTHORS on page 768**

APRIL 15, 1991, VOL. 67, NO. 9

## CORONARY ARTERY DISEASE

789

An Economic Evaluation of Lovastatin for Cholesterol Lowering and Coronary Artery Disease Reduction Joel W. Hay, Ellison H. Wittels, and Antonio M. Gotto, Jr.

797

Effects of Time Required for Reperfusion (Thrombolysis or Angioplasty, or Both) and Location of Acute Myocardial Infarction on Left Ventricular Functional Reserve Capacity Several Months Later

Thomas Little, Marshall Crenshaw, Henry A. Liberman, Louis L. Battey, Robert Warner, Andre L. Churchwell, Robert L. Eisner, Douglas C. Morris, and Randolph E. Patterson

806

Frequency and Significance of Occult Late Potentials on the Signal-Averaged Electrocardiogram in Sustained Ventricular Tachycardia After Healing of Acute Myocardial Infarction

Pramod Deshmukh, Stephen L. Winters, and J. Anthony Gomes

012

Usefulness of the Automatic Implantable Cardioverter Defibrillator in Improving Survival of Patients with Severely Depressed Left Ventricular Function Associated with Coronary Artery Disease

Eduardo de Marchena, Simon Chakko, Pedro Fernandez, Augusto Villa, Debbie Cooper, Paula Wozniak, Jose Cruz, Richard J. Thurer, Kenneth M. Kessler, and Robert J. Myerburg

817

Comparison of Intravascular Ultrasound, External Ultrasound and Digital Angiography for Evaluation of Peripheral Artery Dimensions and Morphology Khalid H. Sheikh, Charles J. Davidson, Katherine B. Kisslo, J. Kevin Harrison, Stevan I. Himmelstein, Joseph Kisslo, and Thomas M. Bashore

823

Left Ventricular Diastolic Function in Patients with Left Ventricular Systolic Dysfunction Due to Coronary Artery Disease and Effect of Nicardipine

Constantine N. Aroney, Marc J. Semigran, G. William Dec, Charles A. Boucher, and Michael A. Fifer

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

830

A New Method for Estimating Preexcitation Index Without Extrastimulus Technique and its Usefulness in Determining the Mechanism of Supraventricular Tachycardia

Takeshi Yamashita, Hiroshi Inoue, Akira Nozaki, Tsong-Teh Kuo, Masahiro Usui, Shinichiro Saihara, and Tsuneaki Sugimoto

835

Usefulness of the Electrophysiologic Laboratory for Evaluation of Proarrhythmic Drug Response in Coronary Artery Disease

Alfred E. Buxton, Mark E. Rosenthal, Francis E. Marchlinski, John M. Miller, Belinda Flores, and Mark E. Josephson

843

Effectiveness of Glibenclamide on Myocardial Ischemic Ventricular Arrhythmias in Non-Insulin-Dependent Diabetes Mellitus

Federico Cacciapuoti, Renato Spiezia, Ugo Bianchi, Diana Lama, Maria D'Avino, and Michele Varricchio

## **CONGESTIVE HEART FAILURE**

848

Incremental Prognostic Value of Exercise
Hemodynamic Variables in Chronic Congestive Heart
Failure Secondary to Coronary Artery Disease or to
Dilated Cardiomyopathy

Brian P. Griffin, Prediman K. Shah, John Ferguson, and Stanley A. Rubin

## VALVULAR HEART DISEASE

854

Short- and Long-Term Results of Catheter Balloon Percutaneous Transvenous Mitral Commissurotomy Jui-Sung Hung, Ming-Shyan Chern, Jong-Jen Wu, Morgan Fu, Kou-Ho Yeh, Yahn-Chyurn Wu, Wen-Jin Cherng, Sarah Chua, and Ching-Bin Lee

863

Effects of Aerobic Exercise Training on Symptomatic Women with Mitral Valve Prolapse

Kristine A. Scordo

869

Validity of an Early Postoperative Baseline Doppler Recording After Aortic Valve Replacement Rune Wiseth, Lars Hegrenaes, Ole Rossvoll, Terje Skjaerpe, and Liv Hatle

# CONGENITAL HEART DISEASE

873

Ventricular Late Potentials and Induced Ventricular Arrhythmias after Surgical Repair of Tetralogy of Fallot

Marc Zimmermann, Beat Friedli, Richard Adamec, and Ingrid Oberhänsli

## MISCELLANEOUS

### Thallium-201 Stress Scintigraphy in Takayasu Arteritis

Yuji Hashimoto, Fujio Numano, Yoshiaki Maruyama, Toshiyuki Oniki, Kenji Kasuya, Tsunekazu Kakuta, Tomoko Wada, Michiyoshi Yajima, and Hidenori Maezawa

#### **BRIEF REPORTS**

### 883

# **Usefulness of Dipyridamole-Handgrip Echocardiography Test for Detecting Coronary Artery**

Eva Mandysova, Petr Niederle, Anna Malkova, Rudolf Feuereisl, Vaclav Cervenka, Michael Aschermann, and Frantisek Mandys

# Comparison of Manual Versus Automated Edge Detection for Determining Degrees of Luminal **Narrowing by Quantitative Coronary Angiography** Anatoly Langer and Robert F. Wilson

## Multiple Accessory Pathways in the Wolff-Parkinson-White Syndrome as a Risk Factor for Ventricular Fibrillation

Wee Siong Teo, George J. Klein, Gerard M. Guiraudon, Raymond Yee, James W. Leitch, Douglas McLellan, Richard A. Leather, and You Ho Kim

## Percutaneous Balloon Mitral Valvuloplasty in Juvenile Rheumatic Mitral Stenosis

Savitri Shrivastava, Vishwa Dev, Ramachandran S. Vasan, Gladwin S. Das, and Meera Rajani

## Reversal of Changes in Left Ventricular Diastolic Filling Associated with Normal Aging Using Diltiazem

Warren J. Manning, Richard P. Shannon, John A. Santinga, J. Anthony Parker, Ernest V. Gervino, Patricia C. Come, and Jeanne Y. Wei

## Spontaneous Regression of Cardiac Rhabdomyoma

Zia O. Farooki, Robert D. Ross, Stephen M. Paridon, Richard A. Humes, Peter P. Karpawich, and William W. Pinsky

## Afterload Dependence of Echocardiographic Left Ventricular Ejection Force Determination

Thomas R. Lloyd and Richard L. Donnerstein

## CASE REPORTS

## 904

## Unstable Myocardial Ischemia After the Initiation of **Niacin Therapy**

Richard C. Pasternak and Benet S. Kolman

## Mechanical Failure of a St. Jude Medical Prosthesis

David A. Orsinelli, Richard C. Becker, Henri F. Cuénoud, and John M. Moran

## 909

## Transtracheal Placement and Imaging with a Transesophageal Echocardiographic Probe

Leonard F. Fagan, Jr., Ronald Weiss, Ramon Castello, and Arthur J. Labovitz

## READERS' COMMENTS

#### 911

# Clarification

Jerry C. Luck

## Diastolic Dysfunction in Prinzmetal's Angina Tsung O. Cheng

# Role of Arterial Filters in the Prevention of Systemic Embolization by Microbubbles Released by

Pietro A. Abbruzzese, Luigi Meloni, Gabriele Cardu, Valentino Martelli, and Angelo Cherchi

# We Are a Third of One

Mark R. Goldstein

#### CORRECTION

## **INSTRUCTIONS TO AUTHORS on page 900**

## APRIL 22, 1991, VOL. 67, NO. 10

## A SYMPOSIUM:

POSITION OF BETA BLOCKERS IN PRESENT AND **FUTURE THERAPY OF SYSTEMIC HYPERTENSION** 

## MAY 1, 1991, VOL. 67, NO. 11

## **CORONARY ARTERY DISEASE**

## Comparison of Effects of Thrombolytic Therapy on Left Ventricular Function in Patients Over with Those Under 60 Years of Age

Harvey White, David Cross, Margaret Scott, and Robin Norris

## Prediction of Death and Myocardial Infarction by Radionuclide Angiocardiography in Patients with **Suspected Coronary Artery Disease**

Scott H. Johnson, Carol Bigelow, Kerry L. Lee, David B. Pryor, and Robert H. Jones

## 927

# Circadian Variation of Transient Myocardial Ischemia in the Early Out-of-Hospital Period After First Acute Myocardial Infarction

Hans Mickley, Peter Pless, Jens R. Nielsen, and Mogens Møller

# A Prospective Study of Parental History of Myocardial Infarction and Coronary Artery Disease in Men Graham A. Colditz, Eric B. Rimm, Edward Giovannucci, Meir

J. Stampfer, Bernard Rosner, and Walter C. Willett

Usefulness of Weightlifting Training in Improving Strength and Maximal Power Output in Coronary Artery Disease

Neil McCartney, Robert S. McKelvie, David R. S. Haslam, and Norman L. Jones

#### 946

Transient Myocardial Ischemia During Daily Life in Rest and Exertional Angina Pectoris and Comparison of Effectiveness of Metoprolol Versus Nifedipine

Diego Ardissino, Stefano Savonitto, Kenneth Egstrup, Paolo Marraccini, Gianaugusto Slavich, Maurizio Rosenfeld, Giorgio A. Feruglio, Pierluigi Roncarolo, Mario P. Giordano, Inger Wahlqvist, Nina Rehnqvist, Paolo Barberis, Giuseppe Specchia, and Antonio L'Abbate

#### 953

Relation of Stenosis Resolution Pressure to Long-Term Clinical Outcome After Successful Percutaneous Transluminal Coronary Angioplasty

Randy K. Bottner, Curtis E. Green, Carolyn J. Ewels, and Kenneth M. Kent

#### 957

Progression and Regression of Minor Coronary Arterial Narrowings by Quantitative Angiography After Fenofibrate Therapy

Harry W. Hahmann, Thomas Bunte, Nicola Hellwig, Udo Hau, Dieter Becker, Jan Dyckmans, Hans E. Keller, and Hermann J. Schieffer

#### 962

Transtelephonic Electrocardiographic Monitoring of Cardiac Rehabilitation Exercise Sessions in Coronary Artery Disease

Ray W. Squires, Todd D. Miller, Teresa Harn, Teresa A. Micheels, and Tobia A. Palma

### ARRHYTHMIAS AND CONDUCTION DISTURBANCES

### 965

Spectral Turbulence Analysis of the Signal-Averaged Electrocardiogram and its Predictive Accuracy for Inducible Sustained Monomorphic Ventricular Tachycardia

George J. Kelen, Raphael Henkin, Ann-Marie Starr, Edward B. Caref, Dennis Bloomfield, and Nabil El-Sherif

### 97

Mortality in Patients Treated with Flecainide and Encainide for Supraventricular Arrhythmias

Edward L.C. Pritchett and William E. Wilkinson

### 981

A Generalized Description of Wenckebach Behavior with Analysis of Determinants of Ventricular Cycle-Length Variation During Ambulatory Electrocardiography

Joel M. Kupfer and Paul Kligfield

#### SYSTEMIC HYPERTENSION

#### 987

Dyslipidemic Effects of Cigarette Smoking on Beta-Blocker-Induced Serum Lipid Changes in Systemic Hypertension

Gregory P. Vyssoulis, Eva A. Karpanou, Christos E. Pitsavos, Marina A. Toutouza, Athanasios A. Paleologos, and Paylos K. Toutouzas

## CONGESTIVE HEART FAILURE

## 993

Sympathetic Responses of Patients with Congestive Heart Failure to Cold Pressor Stimulus

Ron M. Oren, Paul J. Roach, Hans P. Schobel, William J. Berg, and David W. Ferguson, with the technical assistance of Joan S. Kempf

#### 1002

Bedside Diagnosis of Preserved Versus Impaired Left Ventricular Systolic Function in Heart Failure

Jalal K. Ghali, Sunil Kadakia, Richard S. Cooper, and Youlian Liao

## **VALVULAR HEART DISEASE**

#### 1007

Determination of Severity of Valvular Aortic Stenosis by Doppler Echocardiography and Relation of Findings to Clinical Outcome and Agreement with Hemodynamic Measurements Determined at Cardiac Catheterization Augusto Galan, William A. Zoghbi, and Miguel A. Quiñones

## 1013

Reproducibility of Doppler Echocardiographic Quantification of Aortic and Mitral Valve Stenoses: Comparison Between Two Echocardiography Centers Annette Geibel, Lothar Görnandt, Wolfgang Kasper, and Peter Rubenheimer

## CARDIOVASCULAR PHARMACOLOGY

### 1022

Concentration-Effect Relations of 5-

Hydroxypropafenone in Normal Subjects
Walter Emil Haefeli, Samuel Vozeh, Huy-Riem Ha, Walter
Taeschner, and Ferenc Follath

## **EDITORIALS**

### 1027

The Limited Echocardiogram: A Modification of Standard Echocardiography for Use in the Routine Evaluation of Patients with Systemic Hypertension Henry R. Black, Gregory Weltin, and C. Carl Jaffe

### 103

Management of Aortic Stenosis: Is Cardiac Cathelerization Necessary?
Pravin M. Shah and Bruce M. Graham

### FROM THE EDITOR

**Editorial Board Meeting of The American Journal of** Cardiology - 5 March 1991

William C. Roberts

## INSTRUCTIONS TO AUTHORS on page 1038

## MAY 6, 1991, VOL. 67, NO. 12

## A SYMPOSIUM:

PROCEEDINGS OF THE SECOND INTERNATIONAL **HEART FAILURE WORKSHOP** 

## MAY 15, 1991, VOL. 67, NO. 13

## CORONARY ARTERY DISEASE

Prevalence of Lipoprotein (a) [Lp(a)] Excess in Coronary Artery Disease

Jacques Genest, Jr., Jennifer L. Jenner, Judith R. McNamara, Jose M. Ordovas, Steven R. Silberman, Peter W. F. Wilson, and Ernst J. Schaefer

Effects of Nonionic Versus Ionic Contrast Media on **Complications of Percutaneous Transluminal Coronary** Angioplasty

Nicholas J. Lembo, Spencer B. King, III, Gary S. Roubin, Alexander J. Black, and John S. Douglas, Jr.

Results of Multivessel Percutaneous Transluminal Coronary Angioplasty in Persons Aged 65 Years and

John B. Bedotto, Barry D. Rutherford, David R. McConahay, Warren L. Johnson, Lee V. Giorgi, Thomas M. Shimshak, James H. O'Keefe, Robert W. Ligon, and Geoffrey O. Hartzler

## 1056

**Outcome After Major Dissection During Coronary** Angioplasty Using the Perfusion Balloon Catheter Mark L. Leitschuh, Roger M. Mills, Jr., Alice K. Jacobs, Nicholas A. Ruocco, Jr., David LaRosa, and David P. Faxon

**Correlation of Quantitative Angiographic Parameters** with Changes in Left Ventricular Diastolic Function After Angioplasty of the Left Anterior Descending **Coronary Artery** 

Wing-Hung Leung and Chu-Pak Lau

Waking and Rising at Night as a Trigger of Myocardial

Joan Barry, Stephen Campbell, Alan C. Yeung, Khether E. Raby, and Andrew P. Selwyn

### 1073

**Detection of Silent Myocardial Ischemia in Diabetes** Mellitus

Anatoly Langer, Michael R. Freeman, Robert G. Josse. George Steiner, and Paul W. Armstrong

Left and Right Ventricular Systolic Function and **Exercise Capacity with Coronary Artery Disease** Douglass A. Morrison, James R. Stovall, and Charles Barbiere

Effects on Quality of Life with Comprehensive Rehabilitation After Acute Myocardial Infarction Neil Oldridge, Gordon Guyatt, Norman Jones, Jean Crowe,

Joel Singer, David Feeny, Robert McKelvie, Joanne Runions, David Streiner, and George Torrance

#### 1090

Fat and Cholesterol Intake of Attendees at Two National USA Cardiovascular Annual Meetings Robert H. Selzer, Loren Dubois-Blowers, C. Joan Darnall, Stanley P. Azen, and David H. Blankenhorn

### CONGENITAL HEART DISEASE

Relation of Symptoms to Contractility and Defect Size in Infants with Ventricular Septal Defect

Thomas R. Kimball, Stephen R. Daniels, Richard A. Meyer, David W. Hannon, Philip Khoury, and David C. Schwartz

## MISCELLANEOUS

### 1103

Effects of Acute Alterations in Left Ventricular Loading Conditions on Peak Filling Rate in the Denervated (Transplanted) Ventricle

Douglas S. Schulman, Brian A. Herman. Galal Ziady, Todd Edwards, Robert Kormos, P.S. Reddy, William P. Follansbee. and Barry F. Uretsky.

Comparison of Differences in the Hemodynamic Response to Passive Postural Stress in Healthy Subjects >70 Years and <30 Years of Age Richard P. Shannon, Kathleen A. Maher, John T. Santinga, Henry D. Royal, and Jeanne Y. Wei

Usefulness of Noninvasive Diagnostic Tools for Diagnosis of Acute Pulmonary Embolism in Patients with a Normal Chest Radiograph

Paul D. Stein, Abass Alavi, Alexander Gottschalk, Charles A. Hales, Herbert A. Saltzman, Carol E. Vreim, and John G. Weg

Mechanism of Augmented Left Atrial Pump Function in Myocardial Infarction and Essential Hypertension **Evaluated by Left Atrial Pressure-Dimension Relation** Masunori Matsuzaki, Masaaki Tamitani, Yoichi Toma, Hiroshi Ogawa, Kazuhiro Katayama, Yasuo Matsuda, and Reizo Kusukawa

### **EDITORIALS**

1127

Bridging the Gap Between Cardiology and Molecular Biology

Lennart Philipson

1130

Sudden Death After Acute Myocardial Infarction: The Forgotten Thrombotic View

Freek W. A. Verheugt and Pedro Brugada

#### BRIEF REPORTS

1135

Atrial Fibrillation in Inferior Walf Q-Wave Acute Myocardial Infarction

Tetsuro Sugiura, Toshiji Iwasaka, Nobuyuki Takahashi, Seishi Nakamura, Hiroya Taniguchi, Yo Nagahama, Masahide Matsutani, and Mitsuo Inada

1137

Heart Rate Variability in Acute Myocardial Infarction and Its Association with Infarct Site and Clinical Course

Athanase Pipilis, Marcus Flather, Oliver Ormerod, and Peter Sleight

1139

Angiographic Features of Left Main Coronary Artery Aneurysms

On Topaz, Germano DiSciascio, Michael J. Cowley, Evelyne Goudreau, Ariel Soffer, Amar Nath, Patricia Lanter, and George W. Vetrovec

1143

Influence of Right Bundle Branch Block on Short- and Long-Term Survival After Inferior Wall Q-Wave Myocardial Infarction

François Ricou, Pascal Nicod, Elizabeth Gilpin, Hartmut Henning, and John Ross, Jr

1146

Clinical Aspects of Silent Myocardial Ischemia in China Jian-Zhang Feng, Xiu-Hua Feng, Hai-Jie Li, Mei Jia, and Stephen P. Glasser

1140

Contrast Enhancement of Doppier Signals by Sonicated Albumin for Estimating Right Ventricular Systolic Pressure

Shintaro Beppu, Kazuaki Tanabe, Tomoaki Shimizu, Fuminobu Ishikura, Satoshi Nakatani, Akihiro Terasawa, Hisao Matsuda, and Kunio Miyatake

1150

Effects of Intravenous Diltiazem on Rapid Atrial Fibrillation Accompanied by Congestive Heart Failure J. Thomas Heywood, Bruce Graham, Gary E. Marais, and Kenneth R. Jutzy

1153

Frequency of Supraventricular Tachyarrhythmias in Arrhythmogenic Right Ventricular Dysplasia

Joelci L. Tonet, Reynaldo Castro-Miranda, Toru Iwa, François Poulain, Robert Frank, and Guy H. Fontaine 1154

Twenty-Four-Hour Spectral Analysis of Heart Rate Variability in Congestive Heart Failure Secondary to Coronary Artery Disease

Giancarlo Casolo, Enrico Balli, Antonio Fazi, Cesare Gori, Angelo Freni, and Gianfranco Gensini

1158

Coronary Neovascularization as a Specific Sign for Left Atrial Appendage Thrombus in Mitral Stenosis Morgan Fu, Jui-Sung Hung, Ching-Ben Lee, Wen-Jin Cherng, Cheng-Wen Chiang, Fun-Chung Lin, and Delon Wu

1161

Doppler Echocardiographic Estimation of Transmitral Pressure Gradients and Correlations with Micromanometer Gradients in Mitral Stenosis

Daniel David, Roberto M. Lang, Richard H. Marcus, Alex Neumann, Kirk T. Spencer, Ted Feldman, John D. Carroll, Pinhas Sareli, and Kenneth M. Borow

1165

Diurnal Change in QT Intervals in Dilated Cardiomyopathy and Hypertrophic Cardiomyopathy Atsuko Yanagisawa-Miwa, Hiroshi Inoue, and Tsuneaki Sugimoto

**INSTRUCTIONS TO AUTHORS on page 1168** 

MAY 21, 1991, VOL. 67, NO. 14

A SYMPOSIUM: ADVANCES IN NUCLEAR CARDIOVASCULAR IMAGING

JUNE 1, 1991, VOL. 67, NO. 15

**CORONARY ARTERY DISEASE** 

1165

Prognostic Importance of Collateral Flow and Residual Coronary Stenosis of the Myocardial Infarct Artery After Anterior Wall Q-Wave Acute Myocardial Infarction

Helmut Gohlke, Eva Heim, and Helmut Roskamm

1170

Oxygen Utilization, Carbon Dioxide Elimination and Ventilation During Recovery from Supine Bicycle Exercise 6 to 8 Weeks After Acute Myocardial Infarction

Tsutomu Sumimoto, Tetsuro Sugiura, Masaharu Takeuchi, Fumio Yuasa, Tadashi Hasegawa, Seishi Nakamura, Toshiji Iwasaka, and Mitsuo Inada

1175

Lipoprotein (a) Blood Levels in Unstable Angina Pectoris, Acute Myocardial Infarction, and After Thrombolytic Therapy

Shiqiang Qiu, Pierre Theroux, Jacques Genest, Jr., B. Charles Solymoss, Danielle Robitaille, and Michel Marcil

Role of Sinus Node Artery Disease in Sick Sinus Syndrome in Inferior Wall Acute Myocardial Infarction Paolo Alboni, Gian Franco Baggioni, Salvatore Scarfò, Riccardo Cappato, Gian Franco Percoco, Nelly Paparella, and Gian Enrico Antonioli

Prevalence of Risk Factors in Men with Premature **Coronary Artery Disease** 

Jacques J. Genest, Judith R. McNamara, Deeb N. Salem, and Ernst J. Schaefer

Assessment of Coronary Artery Disease Using Single-Photon Emission Computed Tomography with Thallium-201 During Adenosine-Induced Coronary

Abdulmassih S. Iskandrian, Jaekyeong Heo, Thach Nguyen, Sally G. Beer, Virginia Cave, J. David Ogilby, William Untereker, and Bernard L. Segal

Reactivity of Proximal and Distal Angiographically Normal and Stenotic Coronary Segments in Chronic Stable Angina Pectoris

Dimitris Tousoulis, Juan Carlos Kaski, Peter Bogaty, Filippo Crea, Stavros Gavrielides, Alfredo R. Galassi, and Attilio Maseri

## 1201

Assessment of Severity of Coronary Narrowings by Quantitative Exercise Echocardiography and Comparison with Quantitative Arteriography Luciano Agati, Luciano Arata, Roberto Luongo, Carlo Iacoboni, Marco Renzi, Carmine D. Vizza, Maria Penco,

Francesco Fedele, and Armando Dagianti

Comparative Effects of Oral Molsidomine and Nifedipine on Methylergometrine-Induced Coronary Artery Spasm

Nicolas Danchin, Yves Juillière, Joseph Anconina, Olivier Perrin, Christine Selton-Suty, and François Cherrier

## 1213

Exercise Echocardiography as a Screening Test for Coronary Artery Disease and Correlation with Coronary Arteriography

Linda J. Crouse, James J. Harbrecht, James L. Vacek, Thomas L. Rosamond, and Paul H. Kramer

### 1219

**Quantification of ST-Segment Changes During** Coronary Angioplasty in Patients with Left Bundle Branch Block

Karen S. Stark, Mitchell W. Krucoff, Beverly Schryver, and Kenneth M. Kent

Composition of Atherosclerotic Plaques in Coronary Arteries in Women <40 Years of Age with Fatal Coronary Artery Disease and Implications for Plaque Reversibility

Allen L. Dollar, Amy H. Kragel, Daniel J. Fernicola, Myron A. Waclawiw, and William C. Roberts

Composition of Atherosclerotic Plaques in the Four Major Epicardial Coronary Arteries in Patients ≥90 Years of Age

S. David Gertz, Sonya Malekzadeh, Allen L. Dollar, Amy H. Kragel, and William C. Roberts

Cytokinetic Study of Aortocoronary Bypass Vein Grafts in Place for Less Than Six Months

Jun Amano, Akio Suzuki, Makoto Sunamori, Toyohiro Tsukada, and Fujio Numano

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

## 1237

Effects of Postural Changes Versus Exercise on the Electrophysiologic Parameters of the Accessory Pathway

Ghazwan S. Butrous and A. John Camm

## CONGESTIVE HEART FAILURE

Influence of Left Ventricular Diastolic Filling on Symptoms and Survival in Patients with Decreased Left Ventricular Systolic Function

lan P. Clements, Manuel L. Brown, Alan R. Zinsmeister, and Raymond J. Gibbons

## VALVULAR HEART DISEASE

Comparison of Accuracy of Transesophageal Versus Transthoracic Echocardiography for the Detection of Mitral Valve Prolapse with Ruptured Chordae Tendineae (Flail Mitral Leaflet)

Randall A. Sochowski, Kwan-Leung Chan, Kathryn J. Ascah, and Pierre Bedard

Aortic Valve Replacement for Aortic Stenosis in Persons Aged 80 Years and Over

Alfred T. Culliford, Aubrey C. Galloway, Stephen B. Colvin, Eugene A. Grossi, F. Gregory Baumann, Rick Esposito, Greg H. Ribakove, and Frank C. Spencer

Value and Limitations of Color Doppler Echocardiography in the Evaluation of Percutaneous Balloon Mitral Valvuloplasty for Isolated Mitral

Adelino Parro, Jr., Frederick Helmcke, Edward F. Mahan, III, Navin C. Nanda, David Kandath, and Larry S. Dean

Theoretical and Practical Differences Between the Gorlin Formula and the Continuity Equation for Calculating Aortic and Mitral Valve Areas Jean G. Dumesnil and Ajit P. Yoganathan

### CONGENITAL HEART DISEASE

1273

Ventricular Function During Supine Bicycle Exercise in Univentricular Connection with Absent Right Atrioventricular Connection

Teiji Akagi, Lee N. Benson, Maria Green, Margaret De Souza, Joyce R. Harder, David L. Gilday, and Robert M. Freedom

1279

Impact of Intraoperative Echocardiography on Surgical Management of Congenital Heart Disease

Ying-Hui Hsu, Thomas Santulli, Jr., Ah-Lin Wong, Davis Drinkwater, Hillel Laks, and Roberta G. Williams

## MISCELLANEOUS

1284

Effect of Autonomic Blockade, Postural Changes and Isometric Exercise on Doppler Indexes of Diastolic Left Ventricular Function

Gary D. Plotnick, James J. Kmetzo, and John S. Gottdiener

### **EDITORIALS**

1291

Narrow QRS Mobitz Type II Second-Degree Atrioventricular Block in Acute Myocardial Infarction: True or False?

S. Serge Barold

1295

Update of Effects of Calcium Antagonists in Myocardial Infarction or Angina in Light of the Second Danish Verapamil Infarction Trial (DAVIT-II) and Other Recent Studies

Salim Yusuf, Peter Held, and Curt Furberg

## FROM THE EDITOR

1298

Singapore and Singaporean Cardiology William C. Roberts

**INSTRUCTIONS TO AUTHORS on page 1212** 

JUNE 15, 1991, VOL. 67, NO. 16

# CORONARY ARTERY DISEASE

1303

Comparison of Rubidium-82 Positron Emission Tomography and Thallium-201 SPECT Imaging for Detection of Coronary Artery Disease

Richard E. Stewart, Markus Schwaiger, Edgar Molina, Jeffrey Popma, Gerald M. Gacioch, Morton Kalus, Sheila Squicciarini, Ziad R. Al-Aouar, Anthony Schork, and David E. Kuhl

1311

Dobutamine Digital Echocardiography for Detecting Coronary Artery Disease

Jerald L. Cohen, Trevor O. Greene, John Ottenweller, Steve Z. Binenbaum, Samuel D. Wilchfort, and Chung S. Kim, with the technical assistance of John R. Alston

1319

Usefulness of Esmolol in Unstable Angina Pectoris

Stefan H. Hohnloser, Thomas Meinertz, Thomas Klingenheben, Bärbel Sydow, and Hanjörg Just, for the European Esmolol Study Group

1324

Effects of Hemoperfusion During Percutaneous Transluminal Coronary Angioplasty on Left Ventricular Function

Jose R. Azpiri, Robert J. Chisholm, Kenneth R. Watson, and Paul W. Armstrong

1330

Detection of Intracoronary Fibrin Degradation After Coronary Balloon Angioplasty

Coronary Balloon Angioplasty
Michael E. Ring, John J. Vecchione, Louis D. Fiore, Nicholas
A. Ruocco, Jr., Alice K. Jacobs, Daniel Deykin, Thomas J.
Ryan, and David P. Faxon

1335

Comparison of Usefulness of High-Dose Dipyridamole Echocardiography and Exercise Electrocardiography for Detection of Asymptomatic Restenosis After Coronary Angioplasty

Salvatore Pirelli, Gian B. Danzi, Antonia Alberti, Daria Massa, Giacomo Piccaló, Francesco Faletra, Eugenio Picano, Luigi Campolo, and Claudio De Vita

1220

Validation of Continuous Radionuclide Left Ventricular Functioning Monitoring in Detecting Silent Myocardial Ischemia During Balloon Angioplasty of Left Anterior Descending Coronary Artery

David S. Kayden, Michael S. Remetz, Henry S. Cabin, Lawrence I. Deckelbaum, Michael W. Cleman, Frans J. Th. Wackers, and Barry L. Zaret

1344

Hemodynamic and Metabolic Effects of Venoarterial Cardiopulmonary Support in Coronary Artery Disease Robert K. Stack, Gregory S. Pavlides, Ronald Miller, Joseph Bassett, John Cieszkowski, Vellapaliil Gangadharan, Mark Sakwa, Paul Clancy, and William W. O'Neill

1349

Effects of Lipoprotein (a) on Success Rate of Thrombolytic Therapy in Acute Myocardial Infarction Eberhard von Hodenberg, Jörg Kreuzer, Martina Hautmann, Thomas Nordt, Wolfgang Kübler, and Christoph Bode

135

Long-Term Effect of Thrombolytic Therapy on Left Ventricular Ejection Fraction After Acute Myocardial

Milena J. Henzlova, Robert C. Bourge, Silvio E. Papapietro, Larry E. Maske, Terri E. Morgan, E. Lindsey Tauxe, and William J. Rogers

1360

Intracellular Compartmentation of Cardiac Troponin T and Its Release Kinetics in Patients with Reperfused and Nonreperfused Myocardial Infarction

Hugo A. Katus, Andrew Remppis, Thomas Scheffold, Klaus W. Diederich, and Wolfgang Kuebler

Usefulness of ST-Segment Changes in ≥ 2 Leads on the Emergency Room Electrocardiogram in Either Unstable Angina Pectoris or Non-Q-Wave Myocardial Infarction in Predicting Outcome

Marc Cohen, Linda Hawkins, Steven Greenberg, and Valentin Fuster

## ARRHYTHMIAS AND CONDUCTION DISTURBANCES

#### 1375

Experience with a Third-Generation Implantable Cardioverter-Defibrillator

Sanjeev Saksena, Davendra Mehta, Ryszard B. Krol, Nicholas G. Tullo, Amarkanth Saxena, Raj Kaushik, and John Neglia

#### 1385

Frequency and Mechanism of Bradycardia in Cardiac Transplant Recipients and Need for Pacemakers Aria DiBiase, Tak-Ming Tse, Ingela Schnittger, Lewis Wexler, Edward B. Stinson, and Hannah A. Valantine

### CONGENITAL HEART DISEASE

Ventricular Function in the Single Ventricle Before and After Fontan Surgery

Sanjay R. Parikh, Roger A. Hurwitz, Randall L. Caldwell, and Donald A. Girod

#### MISCELLANEOUS

## 1396

Pulmonary Venous Flow Velocity Pattern as Assessed With Transthoracic Pulsed Doppler Echocardiography in Subjects Without Cardiac Disease

Tohru Masuyama, Jung-Myung Lee, Masahiko Tamai, Jun Tanouchi, Akira Kitabatake, and Takenobu Kamada

Stroke Volume Increases by Similar Mechanisms During Upright Exercise in Normal Men and Women Martin J. Sullivan, Frederick R. Cobb, and Michael B. Higginbotham

### METHODS

## 1413

Interstudy Reproducibility of Biplane Cine Nuclear Magnetic Resonance Measurements of Left Ventricular

Halima Benjelloun, Gregory B. Cranney, Katharine A. Kirk, Gerald G. Blackwell, Chaim S. Lotan, and Gerald M. Pohost

### **EDITORIALS**

#### 1421

Need for a Standardized Approach to Grading Symptoms Associated with Ventricular **Tachyarrhythmias** 

Michael H. Lehmann, Russell T. Steinman, Marc D. Meissner, Claudio D. Schuger, Robert D. Mosteller, and Mervat A. Nahih

### 1424

The Implantable Defibrillator Backlash Richard N. Fogoros

# **BRIEF REPORTS**

#### 1428

Diurnal Change in QT Intervals in Dilated Cardiomyopathy and Hypertrophic Cardiomyopathy Atsuko Yanagisawa-Miwa, Hiroshi Inoue, and Tsuneaki Sugimoto

Left Atrial Endocardial Lipid Deposits and Absent to Minimal Arterial Lipid Deposits in Familial Hyperchylomicronemia

Sonya Malekzadeh, Frederick A. Dressler, Jeffrey M. Hoeg, H. Bryan Brewer, Jr., and William C. Roberts

Hemodynamic Effects of Magnesium Sulfate on the **Normal Human Heart** 

Carlo Vigorito, Arturo Giordano, Paolo Ferraro, Domenico Acanfora, Lorenzo De Caprio, Corrado Naddeo, and Franco Rengo

## CASE REPORTS

"Milking" of the Left Anterior Descending Coronary Artery After Stenting

Fernando Alfonso, Carlos Macaya, Andres Iñiguez, Alberto San Roman, Rosa Hernandez, Javier Goicolea, and Pedro Zarco

### 1440

Late Outcome After Successful Balloon Dilatation of **Blalock-Taussig Variant Shunt Stenosis** John Fernandes and Jean S. Kan

**Tetralogy of Fallot in Triplet Siblings** Steven C. Cassidy and Hugh D. Allen

**INSTRUCTIONS TO AUTHORS on page 1374** 

**VOLUME INDEXES on page 1445** 

